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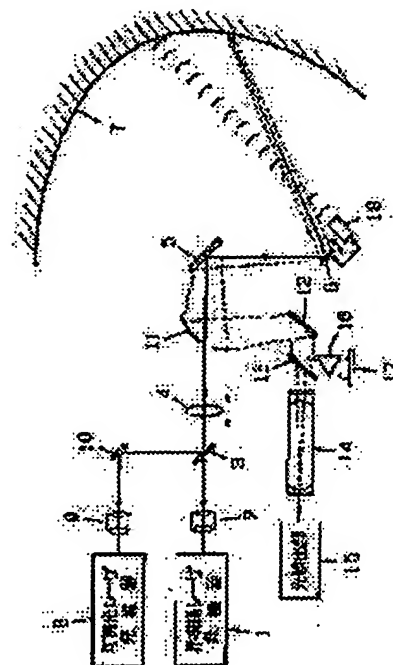
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(54) METHOD AND APPARATUS FOR INSPECTING CONCRETE STRUCTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a means for inspecting a concrete structure in which a noncontact and nondestructive inspection is performed with regard to the inner defect of a concrete without relying upon human feeling and an inspection can be performed with regard to the variation of properties.

SOLUTION: The surface of a concrete 7 is irradiated with infrared laser to generate plasma on the irradiated surface and a physical vibration is imparted thereto. The light of the plasma is subjected to spectroscopic analysis using a prism 16, a CCD 17, and the like, and elements deposited on the surface of the concrete are specified thus analyzing the properties of the concrete. On the other hand, the irradiated surface is irradiated with single light and reflection wave of the physical vibration is detected by means of an interferometer 14, a photodetecting section 15, and the like, through the reflected signal light thus analyzing the inner defect of the concrete.



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